CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/SKSIPL/W.No.17/2018-19

Date: 03.12.2018

TEST REPORT

CLIENT	:	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
AGENCY	:	**Sri. B.N Girish** **SKS Infrastructure Pvt. Ltd.** #180, K.G Nagar, 1st Main Road, Bangalore-560019.
NAME OF THE WORK	:	Construction of Dhyana Mandira at JP Park Phase II in Ward No.17.
REFERENCE	:	EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	420 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/SKSIPL/W.No.17/2018-19 Date : 03.12.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri. B.N Girish**
SKS Infrastructure Pvt. Ltd.
#180, K.G Nagar, 1st Main Road, Bangalore-560019.

Name of Work : Construction of Dhyana Mandira at JP Park Phase II in Ward No.17

Reference : EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018

Date of Testing : 03.12.2018

Material : M - Sand

Total Wt. of Aggregates **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	139	6.95	6.95	93.1	90-100
2.36	215	10.75	17.70	82.3	75-100
1.18	190	9.50	27.20	72.8	55-90
600 Micron	356	17.80	45.00	55.0	35-59
300 Micron	590	29.50	74.50	25.5	8-30
150 Micron	418	20.90	95.40	4.6	0-10

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2018-19 Date : 03.12.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri. B.N Girish**
SKS Infrastructure Pvt. Ltd.
#180, K.G Nagar, 1st Main Road, Bangalore-560019.

Name of Work : Construction of Dhyana Mandira at JP Park Phase II in Ward No.17

Reference : EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018

Date of Testing : 03.12.2018

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	184	1.23	1.23	98.77	95-100
20	8436	56.24	57.47	42.53	30-70
10	3640	24.27	81.73	18.27	10-35
4.75	2168	14.45	96.19	3.81	0-5

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2018-19 Date : 03.12.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri. B.N Girish**
SKS Infrastructure Pvt. Ltd.
#180, K.G Nagar, 1st Main Road, Bangalore-560019.

Name of Work : Construction of Dhyana Mandira at JP Park Phase II in Ward No.17

Reference : EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018

Date of Testing : 03.12.2018

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	186	3.7	3.7	96.3	95-100
10	3150	63.0	66.7	33.3	25-55
4.75	1265	25.3	92.0	8.0	0-10

Note:

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2018-19 Date : 03.12.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri. B.N Girish**
SKS Infrastructure Pvt. Ltd.
#180, K.G Nagar, 1st Main Road, Bangalore-560019.

Name of Work : Construction of Dhyana Mandira at JP Park Phase II in Ward No.17

Reference : EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018

Date of Testing : 03.12.2018

Material : River Sand Total Wt. of Aggregates **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	184	9.20	9.20	90.8	90-100
2.36	210	10.50	19.70	80.3	75-100
1.18	185	9.25	28.95	71.1	55-90
600 Micron	365	18.25	47.20	52.8	35-59
300 Micron	510	25.50	72.70	27.3	8-30
150 Micron	428	21.40	94.10	5.9	0-10

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2018-19 Date : 03.12.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency : **Sri. B.N Girish**
SKS Infrastructure Pvt. Ltd.
#180, K.G Nagar, 1st Main Road, Bangalore-560019.
Name of Work : Construction of Dhyana Mandira at JP Park Phase II in Ward No.17.
Reference : EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018
Date of Testing : 03.12.2018

Material : Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	21	2.10	2.10	97.9	95-100
2.36	10	1.00	3.10	96.9	95-100
1.18	38	3.80	6.90	93.1	90-100
600 Micron	75	7.50	14.40	85.6	80-100
300 Micron	236	23.60	38.00	62.0	20-65
150 Micron	510	51.00	89.00	11.0	0-15

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2018-19

Date : 03.12.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri. B.N Girish**
SKS Infrastructure Pvt. Ltd.
#180, K.G Nagar, 1st Main Road, Bangalore-560019.

Name of Work : Construction of Dhyana Mandira at JP Park Phase II in Ward No.17.

Reference : EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018

Date of Testing : 03.12.2018

Material : Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	18	1.80	1.80	98.2	90-100
1.18	66	6.60	8.40	91.6	70-100
600 Micron	95	9.50	17.90	82.1	40-100
300 Micron	260	26.00	43.90	56.1	5-.70
150 Micron	489	48.90	92.80	7.2	0-15

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2018-19

Date: 04.12.2018

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri. B.N Girish**
SKS Infrastructure Pvt. Ltd.
#180, K.G Nagar, 1st Main Road, Bangalore-560019.

Name of Work : Construction of Dhyana Mandira at JP Park Phase II in Ward No.17.

Reference : EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018

Sample Identification : 10mm,12mm,16mm,20mm, 25mm, Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 04.12.2018

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.39	545	551	14
2	Fe 500	12	0.88	559	564	15.5
3	Fe 500	16	1.58	560	572	16
4	Fe 500	20	2.46	578	585	16.5
5	Fe 500	25	3.85	580	593	17

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ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/SKSIPL/W.No.17/2018-19 : 04.12.2018

TEST REPORT ON CEMENT CONCRETE SOLID BLOCKS

*** Customer** : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

*** Agency** : **Sri. B.N Girish**
SKS Infrastructure Pvt. Ltd.
#180, K.G Nagar, 1st Main Road, Bangalore-560019.

*** Name of the Work** : Construction of Dhyana Mandira at JP Park Phase II in Ward No.17

Reference : EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018

Date of Testing : 04.12.2018

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	36.8	298.6	3.73	Minimum required Compressive Strength of Individual Units 3.50 N/mm^2
2	Block 2	35.6	294.8	3.69	
3	Block 3	34.9	299.1	3.74	
4	Block 4	37.5	297.2	3.72	

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2018-19

Date: 03.01.2019

TEST REPORT ON CEMENT MORTAR CUBES

Client	: **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Contractor	**Sri. B.N Girish** **SKS Infrastructure Pvt. Ltd.** **#180, K.G Nagar, 1st Main Road, Bangalore-560019.**
Name of the work	Construction of Dhyana Mandira at JP Park Phase II in Ward No.17.
Reference	EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018
Sample ID	: Cement Mortar
Size of cubes	: 50mmx50mmx50mm
Cross Sectional Area	: 2500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008) & IS: 2250-1981
Compressive Strength as on	28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.12.2018	03.01.2019	0.798	12.8	5.12
2	06.12.2018	03.01.2019	0.765	13.6	5.44
3	06.12.2018	03.01.2019	0.778	13.9	5.56

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